



ANALOG WAY®

QUICK START GUIDE

Pulse - Ref. PLS300

Thank you for choosing **Analog Way** and the **Pulse**. By following these simple steps, you will be able to setup and use your powerful Dual Scaler Hi-Resolution Seamless Switcher within minutes. Discover the **Pulse** extensive capabilities and intuitive interface while configuring your first show, and unleash your creativity for a new experience in show and event management by **Analog Way**.

What's in the box

- 1 x Pulse (PLS300)
- 1 x Power supply cord
- 2 x DVI-I male to HD15 female and DVI-D female cable
- 1 x HD15 to 5 BNC cable
- 1 x Ethernet cross cable (for device update)
- 1 x Set of 3 audio 5 pin screw terminals
- 4 x M4x12mm screws
- 1 x RCS (Remote Control Software for PC only) *
- 1 x User Manual (PDF version) *
- 1 x Quick Start Guide *

* Download on our website: www.analogway.com

WARNING !

If required, front handles of the device can be dismantled, but with caution.

The original screws removed must not be reintroduced to their location without handles in place.

Substantial damages can occur, including risk of electric shock from the mains voltage.

Only **M4x12mm** screws can be used.
(They are supplied with the unit)

Quick install and setup

Getting started:

You may wish to reset the unit to factory settings to get started.
Go to: **Menu --> Control --> Default Values --> Yes**.

1. Select the Output resolution that matches the native resolution of your display. You will next be prompted to choose enable follow mode if desired and output rate.

Menu --> Output --> Output format --> 1024x768 --> Internal Ref --> 60 Hz.

2. Inputs can be configured automatically using the *Auto Set All* function.

Menu --> Inputs --> AutoSet All.

It will scan each input and detect the sync type that is plugged in. You can still do an *Autoset* or manual setup per input.

The Pulse has 4 layers available called: **[BACKGROUND FRAME]**, **[BACKGROUND LIVE]**, **[PIP]** and **[LOGO]**. Each layer will obscure your view other layers below.

3. To display a source, Select the **[BACKGROUND LIVE]** layer (it will begin to blink) then, select a source (it will also blink). Press **[TAKE]** to transition your source from preview to program output.

There will always be a layer selected (blinking) and a source selected (blinking) to the selected layer (blinking). To view on preview or change the contents of a different layer, simply select it. Only 1 layer can be seen on the preview at a time.

4. To display a PIP, select the PIP layer (it will begin to blink) then select your source (it will also blink). Press **[TAKE]** to display the PIP on program output.

To see the layer beneath, you will need to clear or move the layers that are on top.

5. To clear the PIP or any other layer, select the layer (it will blink) then, select **[BLACK]**. Press **[TAKE]** to remove the layer from the program output.

TIP If you would like the Program and Preview to toggle/flipflop during each Take, enable this feature by going to **Menu --> Control --> Preset Toggle**.

Once enabled, everything on the Program output will become the Preview during each Take.

6. To display a logo or frame (framestore) follow the steps on page 4.

See the next page which describes the button lighting color code and other front panel features.

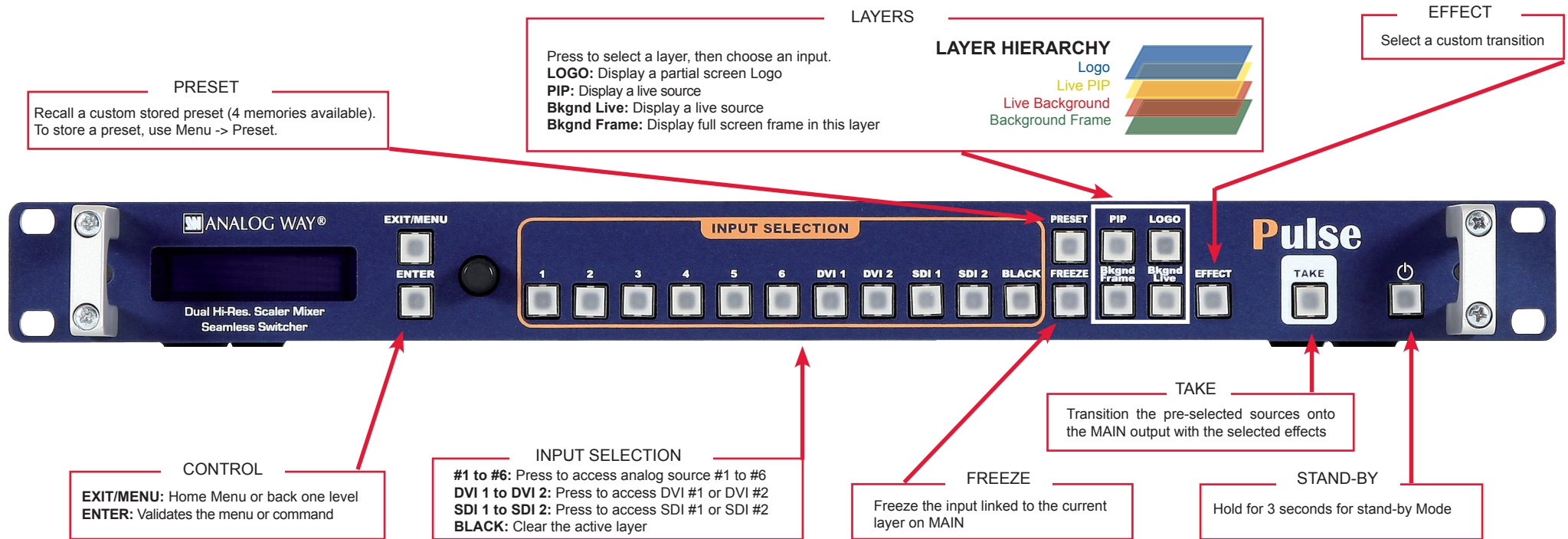
PLS300 can be used to display:

- sources seamlessly switched in the **Background Live layer**.
- **1 PIP** and 1 Logo over the Background Live layer.
- **2 PIPs** and 1 Logo over a Background Frame by resizing the Background Live layer.

IMPORTANT: Simply selecting a menu item will not set it to that value. Be sure to press the **ENTER** button when parametering the menu items.

Pulse - Ref. PLS300

Front Panel Description



BUTTON COLOR USAGE

Solid red:		#1 = Source is on the main outputs #2 = Freeze enable #3 = Stand-by button #4 = Preset Selection
Solid green:		#1 = Source is on Preview #2 = Function available for modification
Blinking red:		Layer/source selected, and is currently active on the main output
Blinking green:		Layer/source selected, and is not currently active on the main output

OPERATIONS OVERVIEW

WORKING IN MIXER MODE

- 1- Select an **INPUT**.
- 2- On the preview screen, the input appears
- 3- Select an **[EFFECT]** (open/close)
- 4- Press **[TAKE]** to view the result on the Main screen
- 5- Try enabling the 'Preset Toggle' from the Control menu to have your preview replaced by program during each Take

WORKING WITH PIPs IN MIXER MODE

- 1- Press the **[PIP]** button. On the preview screen, the PIP (layer) appears as a color rectangle
- 2- Select an input. On the preview screen, the input appears in the layer rectangle
- 3- Adjust the PIP (layer) with **Layer menu** (Pos & Size or Zoom by Toggle function)
- 4- Select a transition (open/close) or an effect into Layer menu **HOME MENU**
- 5- Press **[TAKE]** to view the result on the main screen
- 6- To remove layer, press **[BLACK]** then **[TAKE]**
- 7- For another PIP setup, repeat from step #1

INPUT SETUP

- 1- Press the **[EXIT/MENU]** button from the Home menu (all functions must be confirmed by the **[ENTER]** button)
- 2- Press **INPUT** and **AUTOSET ALL**
- 3- If the acquisition has failed, check all connections and perform a manual setup
- 4- For a comprehensive Input Setup, please refer to user's Manual
- 5- For a manual input setup, press the **[EXIT/MENU]** button:
 - a) Press **INPUT**,
 - b) Select an input from Input #1 up to SDI #2, then
 - c) Select **TYPE**.

NOTE: To adjust input Size or Pos, use the Layer Menus. To adjust Blanking, use the Auto-Centering or Blanking adjustments in the Image menu.

OUTPUT SETUP

- 1- Press the **[EXIT/MENU]** button from the Home menu (all functions must be confirmed by the **[ENTER]** button)
- 2- Press **OUTPUT**
- 3- Press **OUTPUT FORMAT**
- 4- On Format line, select the display's native resolution
- 5- Control or adjust your display device (Monitor or Video Projector)
- 6- If necessary, select **TEST PATTERN** in the Output menu

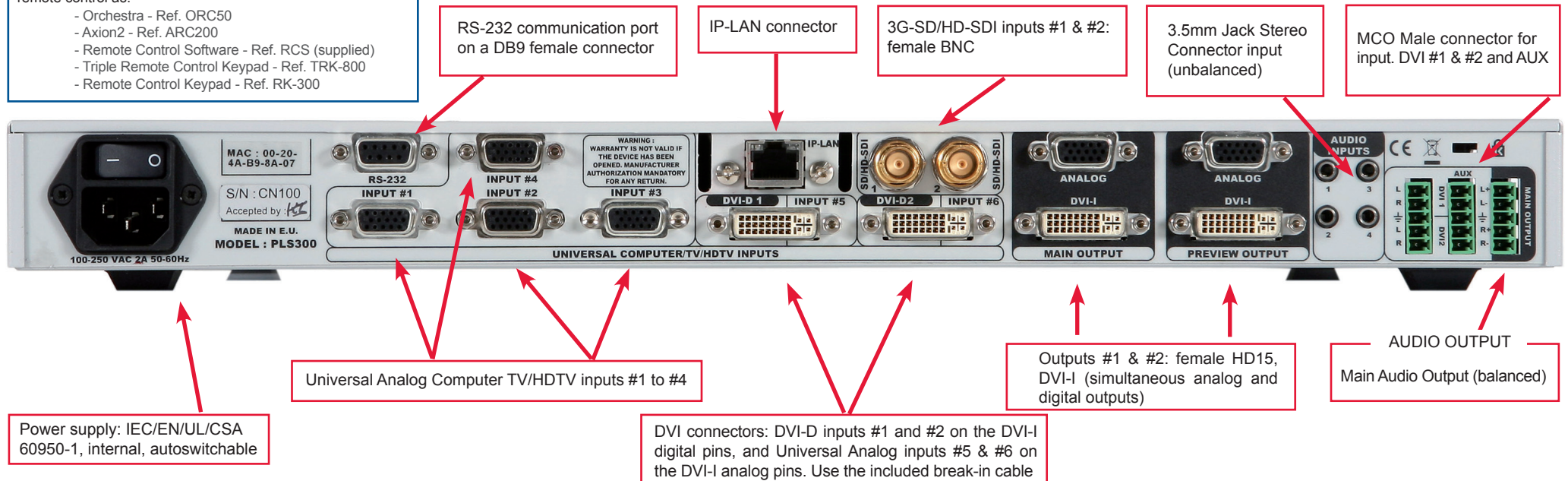
Pulse - Ref. PLS300

Rear Panel Description

WORKING WITH PLS300

The features of PLS300 can be controlled by the external remote control as:

- Orchestra - Ref. ORC50
- Axion2 - Ref. ARC200
- Remote Control Software - Ref. RCS (supplied)
- Triple Remote Control Keypad - Ref. TRK-800
- Remote Control Keypad - Ref. RK-300



HOW TO ADJUST A SOURCE?

HOME MENU (extract)

IMAGE (A3)

(A3) displayed when an input is active

(R1) Analog Computer Input
(R2) Analog Input
(R3) Video Input
(R4) EDTV/HDTV Input
(R5) RGB or YUV or YC or CV
(R6) NTSC Input
(R7) Interlaced 50 Hz
(R8) Interlaced 60 Hz
(R9) SDTV

*** Motion Correction**

The Menu allows to improve the threshold of the comb filter.
0% means no adjustments and 100% is the max. The setting is manual with a visual correction.
The result is the removal of the aliasing in the moving picture.

Auto Centering (R1)
Blanking Adjust (R2)
Cropping (R2)
Optimize (R1)
Under/Over (R3)
Aspect IN
Aspect OUT
Colorimetry
Advanced (R2)
2:2 Pulldown (R7)
3:2 Pulldown (R8)
Force 4:3 (R9)
Reset settings

H position
V position
H size
V size...
H position
V position
H size
V size...
Phase
H Total
Underscan
Overscan
Native
LetterBox_1_78
LetterBox_2_35
Anamorphic
Pillar Box
Full screen
Centered
Cropped
1_1
Brightness
Contrast
Color
Hue (R8)
Component Level (R2)
Motion Correct. (R11) *

Red Level (R6)
Green Level (R6)
Blue Level (R6)

HOME MENU

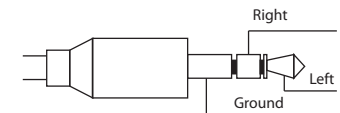
The Home Menu is the system's top level menu, from which all others menus can be accessed. To access a menu, press the [MENU] button. To navigate in the Home Menu, please use the knob. To confirm, please use the [ENTER] button. You can also return to the Home Menu by pressing the [EXIT] button.

- **INPUT:** configure the 10 individual input types and resolutions
- **MAIN OUT:** in Mixer mode, set format and rate
- **PREVIEW OUT:** in Mixer mode, set format and rate
- **PRESET:** store and use presets
- **IMAGE:** change source image settings of an input
- **KEYING/TITLING:** access keying and titling controls and parameters for the selected layer
- **LAYER:** adjust Layer size, position, border transparency or Transition
- **LOGOS/FRAMES:** store (record), and manage layers and frames. To display a frame or logo, use the frame or logo layer (see next page)
- **AUDIO:** access all audio input and output parameters
- **CONTROL:** access device software information, LAN settings, reset factory settings, amongst other user oriented functions (see next page)
- **VIRTUAL T-Bar:** access the Virtual T-Bar

AUDIO INPUTS CONNECTIONS

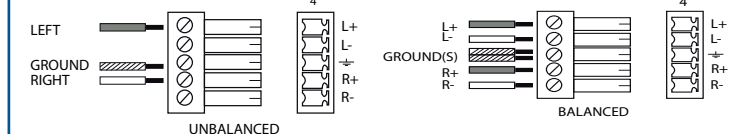
MCO male connectors

Inputs #1 to #4: Unbalanced connection



Inputs #5 to #6: Unbalanced connection

Input #7 (AUX): Balanced connection



Main Output: Balanced connection

How to do an AutoTake?



The Autotake function performs a TAKE automatically each time an input is selected.

How to record & display a still Frame?



The [Empty] term appears next to all unused slots

Frame: Full and individual picture.

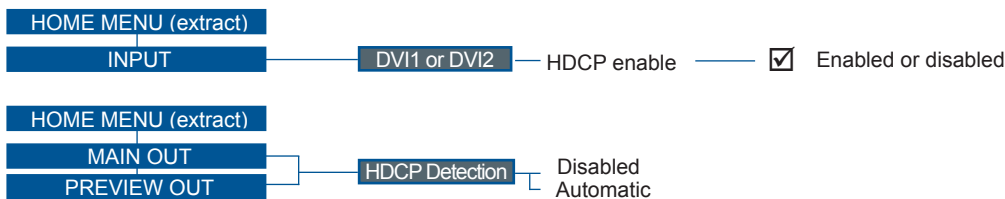
Logo: Part of picture like a graphic symbol which represent a company or organisation.

It is possible to store up to 6 frames and 6 logos in the PLS300 non volatile memory.

- ▶ Select RECORD FRAMES in the Logos/Frames menu.
- ▶ A white rectangle will appear on your main display, indicating the Frame which will be captured.
- ▶ Select an empty frame memory to store the frame into. Your frame will now be stored.
- ▶ To recall a frame: press the [BKGND/FRAME] button, select a frame number (#1 to #6), then press the [TAKE] button. Your Background Frame will appear on your main screen, under any other active layers. Be sure to clear or move any other layers to expose the Background Frame layer.
- ▶ To remove the Background Frame, press [BLACK] button, then [TAKE] button.
- ▶ Once you have recall a frame, you can recall live layers on the top of it.

TIP : A long press on the [BACKGROUND FRAME] button will set all other layers to black/clear on the preview. Press [TAKE] to view your selected frame.

How to disable the HDCP encryption?



The HDCP Encryption can be disabled on DVI inputs #1 to #2 or/and Main Output / Preview Output. This can be useful when you have a computer which is detecting the HDCP compliance of your switcher and protecting the content by encrypting the signal from this computer. This feature will disable the HDCP compliance on this specific DVI input only.

If you want to use HDCP content from your sources, be sure to use only HDCP compliant screens or projector. If it's not the case, the output image could be disabled. When displaying HDCP protected sources on non HDCP compliant equipment, the following message will be displayed on the device screen: « Due to HDCP content, non HDCP screens cannot display protected sources ».

Screen will go to black without displaying the HDCP input image, or partially layer out on HDCP content.

The output status can provide you all information about the output in real time. This feature is particularly useful when HDCP is used with long cable to be sure the communication is well handled.

How to use the Auto-Lock Function?



[AUTO-LOCK] allows to select an input only if a signal is connected.

Warranty

This **Analog Way** product has a 3 year warranty on parts and labor, back to factory. This warranty does not include faults resulting from user negligence, special modifications, electrical surges, abuse (drop/crush), and/or other unusual damage.

Going further with the Pulse

For complete details and operations procedures, please refer to the **Pulse** User's Manual and our website for further information: www.analogway.com